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## » Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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## Inverted file partitioning schemes in multiple disk system

[Byeong-Soo Jeong](#) [Omiecinski, E.](#)

Coll. of Comput., Georgia Inst. of Technol., Atlanta, GA, USA;

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**Abstract**

Multiple-disk I/O systems (disk arrays) have been an attractive approach to meet high performance demands in data intensive applications such as information retrieval systems. When we partition files across multiple disks to exploit the potential for I/O parallelism, a balanced I/O workload becomes important for good performance. Naturally, the performance of a parallel information retrieval system using an inverted file structure is affected by the partitioning scheme of the inverted file. We propose two different partitioning schemes for an inverted file system for a shared-everything machine with multiple disks. We study the performance of these schemes by simulation under various workloads where the term frequencies in the documents are varied, the term frequencies are varied, the number of disks are varied and the multiprogramming level is varied.

**Index Terms****Indexing****Controlled Indexing**
[database machines](#) [input-output programs](#) [parallel machines](#) [parallel processing](#) [management](#)
**Non-controlled Indexing**
[I/O parallelism](#) [balanced I/O workload distribution](#) [disk arrays](#) [inverted file partitioning schemes](#) [inverted file structure](#) [multiple disk systems](#) [multiple-disk I/O systems](#) [information retrieval system](#) [shared-everything multiprocessor machine](#)
**Author Keywords**

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de Giacomo, G. Naggar, P.

Dipartimento di Inf. e Sistemistica, Rome Univ. , Italy;

This paper appears in: **Scientific and Statistical Database Systems, 1996. Proceedings of the International Conference on**

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Meeting Date: 06/18/1996 - 06/20/1996

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Posted online: 2002-08-06 20:27:21.0

**Abstract**

We present a conceptual data model, called SDM, which is able to represent the relation: elementary and statistical data at a conceptual level. SDM borrows elements from research oriented databases and in knowledge representation. In addition it has suitable mechanisms for classifying the instances of a target class according to some specified criteria. The resulting aggregation can then be treated exactly as a class of elementary data. This fulfils the often perceived necessity, in modeling real domains, of treating statistical elementary data in an homogeneous way.

**Index Terms****Indexing****Controlled Indexing**[data structures](#) [database theory](#) [knowledge representation](#) [object-oriented databases](#) [statistical databases](#)**Non-controlled Indexing**[SDM](#) [conceptual data model](#) [elementary data](#) [knowledge representation](#) [model oriented databases](#) [statistical aggregation](#) [statistical databases](#) [structured c](#)**Author Keywords**

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#### Abstract

The following topics were dealt with: high performance scientific databases; multidimensional database modeling; query languages; motion in databases; online analytical processing (data warehousing); user interfaces; workflow management; geographic information systems; and visual databases.

#### Index Terms

Indexing

##### Controlled Indexing

[database theory](#) [geographic information systems](#) [query languages](#) [query processing](#) [scientific information systems](#) [statistical databases](#) [user interfaces](#) [very large databases](#) [visual databases](#)

##### Non-controlled Indexing

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